WHAT IS CLAIMED IS:

1	1.	A waveform monitoring apparatus, comprising:
2		a hydraulic cylinder, incorporated in an injection molding device for
3	ejecting a molding material;	
4		a sensor, generating pressure data of the hydraulic cylinder;
5		a determinant, forming a measured value waveform based on the
6	pressure	e data, and determining that whether the pressure data exceeds a
7	referenc	e pressure waveform by a predetermined range; and
8		a marking applier, applying a marking to an excess portion of the
9	measure	ed value waveform determined by the determinant.
1	2.	The waveform monitoring apparatus as set forth in claim 1, further
2	comprisi	ng a display which displays the measured value waveform having the
3	excess p	portion to which the marking is applied.
1	3.	The waveform monitoring apparatus as set forth in claim 1, further
2	comprisi	ng a sorter which sorts a product formed from the molding material,
3		wherein the determinant outputs a determination signal indicating
4	whether	the pressure data exceeds the reference pressure waveform by the
5	predeter	mined range to the sorter.
1	4.	The waveform monitoring apparatus as set forth in claim 1, wherein
2	the determinant stops an injecting operation of the injection molding device	
3	when the measured value waveform in which the pressure data exceeds a	

- 4 reference pressure waveform by a predetermined range is continuously
- 5 detected more than a predetermined times.
- 1 5. The waveform monitoring apparatus as set forth in claim 1, wherein
- 2 the determinant sets a upper limit range and a lower limit range with respect to
- 3 the reference pressure waveform as the predetermined range.
- 1..... 6. The waveform monitoring apparatus as set forth in claim 1, further......
- 2 comprising a storage which stores the measured value waveform to which the
- 3 marking is applied.
- 1 7. A method for monitoring a waveform, comprising the steps of:
- 2 generating pressure data of a hydraulic cylinder incorporated in an
- 3 injection molding device for ejecting a molding material;
- 4 forming a measured value waveform based on the pressure data;
- 5 determining that whether the pressure data exceeds a reference
- 6 pressure waveform by a predetermined range; and
- 7 applying a marking to an excess portion of the measured value
- 8 waveform determined in the determinant step.
- 1 8. The method as set forth in claim 7, further comprising the step of
- 2 displaying the measured value waveform having the excess portion to which
- 3 the marking is applied.
- 1 9. The method as set forth in claim 7, further comprising the step of

- 2 outputting a determination signal to a sorter which sorts a product formed from
- 3 the molding material,
- 4 wherein the determination signal indicates that whether the pressure
- 5 data exceeds the reference pressure waveform by the predetermined range.
- 1 10. The method as set forth in claim 7, further comprising the step of
- 2 stopping an injecting operation of the injection molding device when the
- 3 measured value waveform in which the pressure data exceeds a reference.
- 4 pressure waveform by a predetermined range is continuously detected more
- 5 than a predetermined times.
- 1 11. The method as set forth in claim 7, wherein the predetermined range
- 2 is set a upper range and a lower range with respect to the reference pressure
- 3 waveform.
- 1 12. The method as set forth in claim 1, further comprising the step of
- 2 storing the measured value waveform to which the marking is applied.